

GigE cameras

Product Info

New generation of GigE cameras

Feature overview

1. New binning options
2. Command trigger
3. Trigger delay
4. Debouncer
5. Sequencer
6. Additional event communication



GigE cameras with increased functionality

Baumer expands the TXG series of cameras with the next generation of GigE cameras. By incorporating enhanced performance features like the new sequencer, command trigger and delay trigger functions, Baumer builds innovation into every camera design and simplifies your specific vision and image processing application.

New features

1. New binning options

Next to the known binning 2x2 mode the software enables you to use flexible binning modes like binning 1x2 or 2x1.

Your benefits

- Lower data load
- Faster data processing

2. Command trigger

The command trigger realizes a camera trigger which will be provided to the network. In comparison to a simple software trigger the command trigger is able to address many cameras at the same time.

Your benefits

- No hardware trigger is necessary to address more than one camera at the same time
- Synchronized image captures using software commands
- No trigger cable necessary

3. Trigger delay

The trigger delay is a flexible user-defined delay between the given trigger impulse and the image capture. The delay time can be set between 0.0 μ sec and 2.0 sec with a stepsize of 1 μ sec. In the case of multiple triggers during the delay the

triggers will be stored and delayed, too. The buffer is able to store up to 512 trigger signals during the delay.

Your benefits

- No need for a perfect alignment of an external trigger sensor
- Different objects can be captured without hardware changes

4. Debouncer

The debouncer enables you to avoid interfering signals by setting a default trigger length between 0.0 μ sec and 5 msec with a stepsize of 1 μ sec. The trigger will be valid if the length will be at least the set time.

Your benefits

- Interfering signals from e.g. frequency converter can be eliminated
- Increase of the stability in industrial environments
- Elimination of expensive suppressors

5. Sequencer (only for monochrome cameras)

The sequencer enables you to store up to 256 values like e.g. gain or exposure time into the camera. After one trigger the sequencer will start to capture images step by step with the given values in the memory. The sequencer is able to capture up to 4 trillion pictures.

Your benefits

- No PC is necessary to capture images with different settings
- Fastest possible image capturing with different exposure / gain values

6. Additional event communication

Additional events can be provided through a separate communication channel from the camera to the PC. These events are including e.g. ExposureStart, ExposureEnd, FrameStart, TriggerSkipped and many more.

Your benefits

- Fastest possible process control
- Reliable trigger control
- Response in case of overtriggering



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